

### ABG Series

#### Features

- Magnetic-resin shielded construction reduces buzz noise to ultra-low levels.
- Metallization on Ferrite Core results in excellent shock resistance and damage-free durability.
- Closed magnetic circuit design reduces leakage flux and Electro Magnetic Interference(EMI) .
- 30% high current rating than conventional inductors of equal size.
- Takes up less PCB real estate and save more power.

#### Applications

- LED Lighting
- Next-generation mobile devices with multifunction such as adding color TV and digital movie cameras
- Flat-screen TVs,blue-ray disc recorders set top box
- Notebooks,desktop computers,servers,graphic cards
- Portable gaming devices,personal navigation systems,personal multimedia devices

#### Test Equipment and Conditions

- Inductance is measured with HP-4284A LCR meter or equivalent.
- Maximum allowable DC current which causes 35% inductance reduction of the initial value ,or coil temperature to rise by 40°C ,whichever is smaller.(Reference ambient temperature 20°C) .
- Operating temperature : - 25°C~ +120°C.

#### External dimensions (Unit:m/m)



| TYPE     | A       | B       | C      | D       | E        | F        | aTyp | bTyp | cTyp | Q'TY/Reel |
|----------|---------|---------|--------|---------|----------|----------|------|------|------|-----------|
| ABG25A10 | 2.5±0.1 | 2.0±0.1 | 1.0Max | 1.5±0.2 | 0.80±0.2 | 0.80±0.2 | 0.8  | 0.85 | 2.0  | 2000      |
| ABG25A12 | 2.5±0.1 | 2.0±0.1 | 1.2Max | 1.5±0.2 | 0.80±0.2 | 0.80±0.2 | 0.8  | 0.85 | 2.0  | 2000      |
| ABG03A10 | 3.0±0.2 | 3.0±0.2 | 1.0Max | 2.5±0.2 | 0.75±0.2 | 1.5±0.2  | 1.5  | 0.8  | 2.7  | 2000      |
| ABG03A12 | 3.0±0.2 | 3.0±0.2 | 1.2Max | 2.5±0.2 | 0.75±0.2 | 1.5±0.2  | 1.5  | 0.8  | 2.7  | 2000      |
| ABG03A15 | 3.0±0.2 | 3.0±0.2 | 1.5Max | 2.5±0.2 | 0.75±0.2 | 1.5±0.2  | 1.5  | 0.8  | 2.7  | 2000      |
| ABG04A12 | 4.0±0.2 | 4.0±0.2 | 1.2Max | 3.3±0.2 | 0.95±0.2 | 2.1±0.2  | 1.9  | 1.1  | 3.4  | 4500      |
| ABG04A18 | 4.0±0.2 | 4.0±0.2 | 1.8Max | 3.3±0.2 | 0.95±0.2 | 2.1±0.2  | 1.9  | 1.1  | 3.4  | 3000      |
| ABG04A20 | 4.0±0.2 | 4.0±0.2 | 2.0Max | 3.3±0.2 | 0.95±0.2 | 2.1±0.2  | 1.9  | 1.1  | 3.4  | 3000      |
| ABG04A30 | 4.0±0.2 | 4.0±0.2 | 3.0Max | 3.3±0.2 | 0.95±0.2 | 2.1±0.2  | 1.9  | 1.1  | 3.4  | 2000      |
| ABG05A20 | 5.0±0.2 | 5.0±0.2 | 2.0Max | 4.0±0.2 | 1.25±0.2 | 2.5±0.2  | 2.3  | 1.4  | 4.2  | 2500      |
| ABG05A40 | 5.0±0.2 | 5.0±0.2 | 4.0Max | 4.0±0.2 | 1.25±0.2 | 2.5±0.2  | 2.3  | 1.4  | 4.2  | 1500      |
| ABG06A20 | 6.0±0.3 | 6.0±0.3 | 2.0Max | 4.9±0.3 | 1.55±0.3 | 2.9±0.3  | 2.8  | 1.7  | 5.7  | 2500      |
| ABG06A28 | 6.0±0.3 | 6.0±0.3 | 2.8Max | 4.9±0.3 | 1.55±0.3 | 2.9±0.3  | 2.8  | 1.7  | 5.7  | 2000      |
| ABG06A45 | 6.0±0.3 | 6.0±0.3 | 4.5Max | 4.9±0.3 | 1.55±0.3 | 2.9±0.3  | 2.8  | 1.7  | 5.7  | 1500      |
| ABG08A40 | 8.0±0.3 | 8.0±0.3 | 4.2Max | 6.3±0.3 | 2.00±0.3 | 4.0±0.3  | 3.8  | 2.2  | 7.5  | 1000      |

#### Part Number Code

ABG   25   A   10   N   R47  
 A      B      C      D      E      F

A: Series Name                      Power Inductors  
 B: Dimensions(mm)                25: 2.5±0.1  
 C: Materials                         NO use  
 D: Thickness(mm)                  10: 1.0 Max  
 E: Tolerance                         N: ±30%    M: ±20%  
 F: Inductance                        R47=0.47uH

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| Part Number   | Inductance( $\mu$ H)<br>@100KHz,1V | DC Resistance<br>( $\Omega$ ) $\pm$ 30% | Min Self-resonant<br>Frequency(MHz) | Saturation<br>Current<br>Isat (A) | Heat Rating<br>Current<br>Irms (A) |
|---------------|------------------------------------|---|-------------------------------------|-----------------------------------|------------------------------------|
| ABG25A10□-R47 | 0.47 $\pm$ 30%                     | 0.045                                   | 180                                 | 3.45                              | 2.42                               |
| ABG25A10□-R68 | 0.68 $\pm$ 30%                     | 0.060                                   | 180                                 | 2.83                              | 2.06                               |
| ABG25A10□-1R0 | 1.0 $\pm$ 30%                      | 0.087                                   | 180                                 | 2.27                              | 1.70                               |
| ABG25A10□-1R5 | 1.5 $\pm$ 30%                      | 0.147                                   | 120                                 | 2.16                              | 1.34                               |
| ABG25A10□-2R2 | 2.2 $\pm$ 30%                      | 0.167                                   | 100                                 | 1.65                              | 1.24                               |
| ABG25A10□-3R3 | 3.3 $\pm$ 20%                      | 0.263                                   | 90                                  | 1.34                              | 0.93                               |
| ABG25A10□-4R7 | 4.7 $\pm$ 20%                      | 0.452                                   | 75                                  | 1.18                              | 0.72                               |
| ABG25A10□-6R8 | 6.8 $\pm$ 20%                      | 0.719                                   | 42                                  | 0.95                              | 0.61                               |
| ABG25A10□-100 | 10 $\pm$ 20%                       | 0.876                                   | 39                                  | 0.80                              | 0.52                               |
| ABG25A12□-R47 | 0.47 $\pm$ 30%                     | 0.037                                   | 180                                 | 4.15                              | 2.34                               |
| ABG25A12□-R68 | 0.68 $\pm$ 30%                     | 0.065                                   | 180                                 | 3.53                              | 1.78                               |
| ABG25A12□-1R0 | 1.0 $\pm$ 30%                      | 0.076                                   | 150                                 | 3.09                              | 1.63                               |
| ABG25A12□-1R2 | 1.2 $\pm$ 30%                      | 0.088                                   | 120                                 | 2.75                              | 1.50                               |
| ABG25A12□-1R5 | 1.5 $\pm$ 20%                      | 0.101                                   | 100                                 | 2.59                              | 1.44                               |
| ABG25A12□-2R2 | 2.2 $\pm$ 20%                      | 0.147                                   | 90                                  | 2.13                              | 1.18                               |
| ABG25A12□-2R7 | 2.7 $\pm$ 20%                      | 0.164                                   | 85                                  | 1.98                              | 1.12                               |
| ABG25A12□-3R3 | 3.3 $\pm$ 20%                      | 0.178                                   | 82                                  | 1.85                              | 1.07                               |
| ABG25A12□-3R6 | 3.6 $\pm$ 20%                      | 0.239                                   | 80                                  | 1.71                              | 0.93                               |
| ABG25A12□-4R3 | 4.3 $\pm$ 20%                      | 0.258                                   | 70                                  | 1.58                              | 0.90                               |
| ABG25A12□-4R7 | 4.7 $\pm$ 20%                      | 0.280                                   | 59                                  | 1.36                              | 0.87                               |
| ABG25A12□-5R1 | 5.1 $\pm$ 20%                      | 0.280                                   | 55                                  | 1.36                              | 0.87                               |
| ABG25A12□-5R6 | 5.6 $\pm$ 20%                      | 0.297                                   | 50                                  | 1.30                              | 0.83                               |
| ABG25A12□-6R2 | 6.2 $\pm$ 20%                      | 0.370                                   | 49                                  | 1.19                              | 0.75                               |
| ABG25A12□-6R8 | 6.8 $\pm$ 20%                      | 0.397                                   | 45                                  | 1.12                              | 0.71                               |
| ABG25A12□-7R5 | 7.5 $\pm$ 20%                      | 0.418                                   | 40                                  | 1.12                              | 0.70                               |
| ABG25A12□-8R2 | 8.2 $\pm$ 20%                      | 0.450                                   | 35                                  | 1.13                              | 0.67                               |
| ABG25A12□-9R1 | 9.1 $\pm$ 20%                      | 0.494                                   | 30                                  | 1.09                              | 0.64                               |
| ABG25A12□-100 | 10 $\pm$ 20%                       | 0.511                                   | 28                                  | 1.00                              | 0.64                               |
| ABG25A12□-120 | 12 $\pm$ 20%                       | 0.735                                   | 26                                  | 0.90                              | 0.53                               |
| ABG25A12□-150 | 15 $\pm$ 20%                       | 1.088                                   | 22                                  | 0.78                              | 0.43                               |
| ABG25A12□-220 | 22 $\pm$ 20%                       | 1.351                                   | 20                                  | 0.61                              | 0.39                               |
| ABG03A10□-1R0 | 1.0 $\pm$ 30%                      | 0.063                                   | 180                                 | 1.44                              | 1.49                               |
| ABG03A10□-1R5 | 1.5 $\pm$ 30%                      | 0.077                                   | 120                                 | 1.31                              | 1.34                               |
| ABG03A10□-2R2 | 2.2 $\pm$ 30%                      | 0.106                                   | 100                                 | 1.18                              | 1.12                               |
| ABG03A10□-2R7 | 2.7 $\pm$ 30%                      | 0.125                                   | 90                                  | 1.03                              | 1.05                               |
| ABG03A10□-3R3 | 3.3 $\pm$ 30%                      | 0.139                                   | 74                                  | 1.00                              | 0.99                               |
| ABG03A10□-3R6 | 3.6 $\pm$ 20%                      | 0.159                                   | 67                                  | 0.98                              | 0.93                               |
| ABG03A10□-4R7 | 4.7 $\pm$ 20%                      | 0.216                                   | 59                                  | 0.77                              | 0.79                               |
| ABG03A10□-6R8 | 6.8 $\pm$ 20%                      | 0.293                                   | 42                                  | 0.57                              | 0.68                               |
| ABG03A10□-100 | 10 $\pm$ 20%                       | 0.385                                   | 39                                  | 0.57                              | 0.60                               |

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|--------------|------------------------------------|--|--|-----------------------------------|------------------------------------|
| ABG03A10-120 | 12 $\pm$ 20%                       | 0.486                                      | 36                                     | 0.44                              | 0.54                               |
| ABG03A10-150 | 15 $\pm$ 20%                       | 0.587                                      | 30                                     | 0.43                              | 0.48                               |
| ABG03A10-220 | 22 $\pm$ 20%                       | 0.896                                      | 28                                     | 0.36                              | 0.39                               |
| ABG03A10-270 | 27 $\pm$ 20%                       | 1.040                                      | 25                                     | 0.31                              | 0.36                               |
| ABG03A10-330 | 33 $\pm$ 20%                       | 1.493                                      | 18                                     | 0.30                              | 0.31                               |
| ABG03A10-390 | 39 $\pm$ 20%                       | 1.685                                      | 18                                     | 0.29                              | 0.29                               |
| ABG03A10-430 | 43 $\pm$ 20%                       | 1.733                                      | 18                                     | 0.24                              | 0.28                               |
| ABG03A10-470 | 47 $\pm$ 20%                       | 1.878                                      | 18                                     | 0.23                              | 0.27                               |
| ABG03A10-510 | 51 $\pm$ 20%                       | 2.119                                      | 18                                     | 0.22                              | 0.26                               |
| ABG03A10-560 | 56 $\pm$ 20%                       | 2.234                                      | 16                                     | 0.22                              | 0.25                               |
| ABG03A12-R82 | 0.82 $\pm$ 30%                     | 0.029                                      | 180                                    | 2.11                              | 2.54                               |
| ABG03A12-1R0 | 1.0 $\pm$ 30%                      | 0.039                                      | 120                                    | 1.93                              | 2.27                               |
| ABG03A12-1R2 | 1.2 $\pm$ 30%                      | 0.043                                      | 120                                    | 2.29                              | 2.07                               |
| ABG03A12-1R5 | 1.5 $\pm$ 30%                      | 0.043                                      | 110                                    | 1.67                              | 2.07                               |
| ABG03A12-1R8 | 1.8 $\pm$ 20%                      | 0.053                                      | 90                                     | 1.56                              | 1.90                               |
| ABG03A12-2R2 | 2.2 $\pm$ 20%                      | 0.072                                      | 84                                     | 1.24                              | 1.60                               |
| ABG03A12-2R4 | 2.4 $\pm$ 20%                      | 0.065                                      | 80                                     | 1.18                              | 1.55                               |
| ABG03A12-2R7 | 2.7 $\pm$ 20%                      | 0.081                                      | 65                                     | 1.17                              | 1.52                               |
| ABG03A12-3R3 | 3.3 $\pm$ 20%                      | 0.096                                      | 64                                     | 1.08                              | 1.40                               |
| ABG03A12-4R7 | 4.7 $\pm$ 20%                      | 0.116                                      | 61                                     | 0.93                              | 1.28                               |
| ABG03A12-6R8 | 6.8 $\pm$ 20%                      | 0.183                                      | 61                                     | 0.77                              | 1.01                               |
| ABG03A12-100 | 10 $\pm$ 20%                       | 0.255                                      | 42                                     | 0.62                              | 0.85                               |
| ABG03A12-120 | 12 $\pm$ 20%                       | 0.332                                      | 32                                     | 0.49                              | 0.75                               |
| ABG03A12-150 | 15 $\pm$ 20%                       | 0.347                                      | 27                                     | 0.46                              | 0.73                               |
| ABG03A12-180 | 18 $\pm$ 20%                       | 0.524                                      | 25                                     | 0.44                              | 0.60                               |
| ABG03A12-220 | 22 $\pm$ 20%                       | 0.621                                      | 23                                     | 0.43                              | 0.55                               |
| ABG03A12-270 | 27 $\pm$ 20%                       | 0.741                                      | 21                                     | 0.41                              | 0.50                               |
| ABG03A12-330 | 33 $\pm$ 20%                       | 0.842                                      | 18                                     | 0.37                              | 0.47                               |
| ABG03A12-360 | 36 $\pm$ 20%                       | 0.915                                      | 18                                     | 0.35                              | 0.45                               |
| ABG03A12-390 | 39 $\pm$ 20%                       | 1.281                                      | 18                                     | 0.31                              | 0.38                               |
| ABG03A12-470 | 47 $\pm$ 20%                       | 1.329                                      | 14                                     | 0.28                              | 0.37                               |
| ABG03A12-560 | 56 $\pm$ 20%                       | 1.329                                      | 14                                     | 0.27                              | 0.37                               |
| ABG03A12-620 | 62 $\pm$ 20%                       | 1.473                                      | 12                                     | 0.26                              | 0.36                               |
| ABG03A12-680 | 68 $\pm$ 20%                       | 1.608                                      | 12                                     | 0.25                              | 0.34                               |
| ABG03A12-820 | 82 $\pm$ 20%                       | 2.446                                      | 12                                     | 0.23                              | 0.28                               |
| ABG03A12-101 | 100 $\pm$ 20%                      | 2.754                                      | 12                                     | 0.22                              | 0.26                               |
| ABG03A15-1R0 | 1.0 $\pm$ 30%                      | 0.036                                      | 150                                    | 2.37                              | 2.16                               |
| ABG03A15-1R2 | 1.2 $\pm$ 30%                      | 0.039                                      | 110                                    | 2.28                              | 2.01                               |
| ABG03A15-1R5 | 1.5 $\pm$ 30%                      | 0.048                                      | 100                                    | 2.37                              | 1.75                               |
| ABG03A15-1R8 | 1.8 $\pm$ 30%                      | 0.048                                      | 92                                     | 1.80                              | 1.75                               |

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|--------------|------------------------------------|--|--|-----------------------------------|------------------------------------|
| ABG03A15-2R2 | 2.2 $\pm$ 30%                      | 0.058                                      | 86                                     | 1.65                              | 1.65                               |
| ABG03A15-2R7 | 2.7 $\pm$ 30%                      | 0.072                                      | 64                                     | 1.57                              | 1.47                               |
| ABG03A15-3R3 | 3.3 $\pm$ 20%                      | 0.077                                      | 68                                     | 1.36                              | 1.40                               |
| ABG03A15-3R6 | 3.6 $\pm$ 20%                      | 0.101                                      | 59                                     | 1.32                              | 1.24                               |
| ABG03A15-4R3 | 4.3 $\pm$ 20%                      | 0.110                                      | 53                                     | 1.24                              | 1.17                               |
| ABG03A15-4R7 | 4.7 $\pm$ 20%                      | 0.120                                      | 46                                     | 1.13                              | 1.12                               |
| ABG03A15-5R1 | 5.1 $\pm$ 20%                      | 0.120                                      | 49                                     | 1.11                              | 1.12                               |
| ABG03A15-6R2 | 6.2 $\pm$ 20%                      | 0.187                                      | 46                                     | 1.03                              | 0.89                               |
| ABG03A15-6R8 | 6.8 $\pm$ 20%                      | 0.193                                      | 39                                     | 0.88                              | 0.88                               |
| ABG03A15-100 | 10 $\pm$ 20%                       | 0.241                                      | 41                                     | 0.74                              | 0.79                               |
| ABG03A15-120 | 12 $\pm$ 20%                       | 0.308                                      | 32                                     | 0.72                              | 0.70                               |
| ABG03A15-150 | 15 $\pm$ 20%                       | 0.337                                      | 30                                     | 0.68                              | 0.67                               |
| ABG03A15-180 | 18 $\pm$ 20%                       | 0.414                                      | 23                                     | 0.58                              | 0.61                               |
| ABG03A15-220 | 22 $\pm$ 20%                       | 0.443                                      | 23                                     | 0.54                              | 0.59                               |
| ABG03A15-330 | 33 $\pm$ 20%                       | 0.790                                      | 20                                     | 0.45                              | 0.44                               |
| ABG03A15-390 | 39 $\pm$ 20%                       | 0.958                                      | 14                                     | 0.42                              | 0.40                               |
| ABG03A15-430 | 43 $\pm$ 20%                       | 1.021                                      | 16                                     | 0.38                              | 0.38                               |
| ABG03A15-470 | 47 $\pm$ 20%                       | 1.204                                      | 14                                     | 0.36                              | 0.36                               |
| ABG03A15-560 | 56 $\pm$ 20%                       | 1.233                                      | 13                                     | 0.34                              | 0.35                               |
| ABG03A15-620 | 62 $\pm$ 20%                       | 1.377                                      | 13                                     | 0.34                              | 0.33                               |
| ABG03A15-680 | 68 $\pm$ 20%                       | 2.600                                      | 11                                     | 0.29                              | 0.24                               |
| ABG04A12-R82 | 0.82 $\pm$ 30%                     | 0.048                                      | 150                                    | 3.64                              | 1.70                               |
| ABG04A12-1R0 | 1.0 $\pm$ 30%                      | 0.048                                      | 120                                    | 2.69                              | 1.70                               |
| ABG04A12-1R5 | 1.5 $\pm$ 30%                      | 0.062                                      | 90                                     | 2.16                              | 1.50                               |
| ABG04A12-1R8 | 1.8 $\pm$ 30%                      | 0.077                                      | 88                                     | 2.54                              | 1.36                               |
| ABG04A12-2R2 | 2.2 $\pm$ 30%                      | 0.077                                      | 74                                     | 1.81                              | 1.36                               |
| ABG04A12-2R7 | 2.7 $\pm$ 30%                      | 0.087                                      | 71                                     | 1.96                              | 1.29                               |
| ABG04A12-3R3 | 3.3 $\pm$ 30%                      | 0.108                                      | 60                                     | 1.29                              | 1.15                               |
| ABG04A12-3R6 | 3.6 $\pm$ 30%                      | 0.106                                      | 57                                     | 1.24                              | 1.15                               |
| ABG04A12-4R3 | 4.3 $\pm$ 30%                      | 0.135                                      | 54                                     | 1.80                              | 1.03                               |
| ABG04A12-4R7 | 4.7 $\pm$ 30%                      | 0.120                                      | 50                                     | 1.18                              | 1.08                               |
| ABG04A12-5R1 | 5.1 $\pm$ 30%                      | 0.149                                      | 50                                     | 1.25                              | 0.98                               |
| ABG04A12-6R8 | 6.8 $\pm$ 20%                      | 0.190                                      | 40                                     | 0.98                              | 0.87                               |
| ABG04A12-100 | 10 $\pm$ 20%                       | 0.255                                      | 33                                     | 0.82                              | 0.79                               |
| ABG04A12-120 | 12 $\pm$ 20%                       | 0.279                                      | 32                                     | 0.68                              | 0.72                               |
| ABG04A12-150 | 15 $\pm$ 20%                       | 0.327                                      | 25                                     | 0.58                              | 0.66                               |
| ABG04A12-180 | 18 $\pm$ 20%                       | 0.453                                      | 23                                     | 0.57                              | 0.57                               |
| ABG04A12-220 | 22 $\pm$ 20%                       | 0.453                                      | 20                                     | 0.56                              | 0.57                               |
| ABG04A12-270 | 27 $\pm$ 20%                       | 0.693                                      | 18                                     | 0.52                              | 0.46                               |
| ABG04A12-330 | 33 $\pm$ 20%                       | 0.780                                      | 17                                     | 0.43                              | 0.43                               |

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|--------------|------------------------------------|--|--|-----------------------------------|------------------------------------|
| ABG04A12-360 | 36 $\pm$ 20%                       | 0.867                                      | 14                                     | 0.41                              | 0.41                               |
| ABG04A12-390 | 39 $\pm$ 20%                       | 1.059                                      | 16                                     | 0.57                              | 0.38                               |
| ABG04A12-470 | 47 $\pm$ 20%                       | 1.059                                      | 12                                     | 0.36                              | 0.38                               |
| ABG04A12-560 | 56 $\pm$ 20%                       | 1.204                                      | 11                                     | 0.34                              | 0.34                               |
| ABG04A12-680 | 68 $\pm$ 20%                       | 1.406                                      | 11                                     | 0.31                              | 0.32                               |
| ABG04A12-820 | 82 $\pm$ 20%                       | 2.061                                      | 11                                     | 0.29                              | 0.27                               |
| ABG04A12-101 | 100 $\pm$ 20%                      | 2.128                                      | 9.4                                    | 0.26                              | 0.26                               |
| ABG04A18-1R0 | 1.0 $\pm$ 30%                      | 0.024                                      | 80                                     | 4.94                              | 2.06                               |
| ABG04A18-2R2 | 2.2 $\pm$ 20%                      | 0.043                                      | 52                                     | 2.78                              | 1.70                               |
| ABG04A18-3R3 | 3.3 $\pm$ 20%                      | 0.067                                      | 44                                     | 2.52                              | 1.27                               |
| ABG04A18-4R7 | 4.7 $\pm$ 20%                      | 0.087                                      | 34                                     | 1.75                              | 1.24                               |
| ABG04A18-6R8 | 6.8 $\pm$ 20%                      | 0.106                                      | 29                                     | 1.49                              | 1.09                               |
| ABG04A18-100 | 10 $\pm$ 20%                       | 0.173                                      | 24                                     | 1.34                              | 0.87                               |
| ABG04A18-150 | 15 $\pm$ 20%                       | 0.241                                      | 19                                     | 0.97                              | 0.67                               |
| ABG04A18-220 | 22 $\pm$ 20%                       | 0.347                                      | 16                                     | 0.82                              | 0.61                               |
| ABG04A18-330 | 33 $\pm$ 20%                       | 0.510                                      | 12                                     | 0.67                              | 0.50                               |
| ABG04A18-470 | 47 $\pm$ 20%                       | 0.626                                      | 10                                     | 0.59                              | 0.43                               |
| ABG04A18-680 | 68 $\pm$ 20%                       | 0.963                                      | 8.3                                    | 0.48                              | 0.33                               |
| ABG04A18-101 | 100 $\pm$ 20%                      | 1.685                                      | 6.5                                    | 0.41                              | 0.26                               |
| ABG04A18-151 | 150 $\pm$ 20%                      | 2.407                                      | 5.5                                    | 0.32                              | 0.23                               |
| ABG04A18-221 | 220 $\pm$ 20%                      | 3.852                                      | 4.0                                    | 0.28                              | 0.18                               |
| ABG04A20-1R0 | 1.0 $\pm$ 30%                      | 0.027                                      | 75                                     | 5.00                              | 2.21                               |
| ABG04A20-1R2 | 1.2 $\pm$ 30%                      | 0.027                                      | 72                                     | 5.25                              | 2.21                               |
| ABG04A20-1R5 | 1.5 $\pm$ 30%                      | 0.033                                      | 71                                     | 4.58                              | 2.04                               |
| ABG04A20-2R2 | 2.2 $\pm$ 30%                      | 0.039                                      | 49                                     | 3.50                              | 1.91                               |
| ABG04A20-3R3 | 3.3 $\pm$ 20%                      | 0.067                                      | 44                                     | 3.30                              | 1.44                               |
| ABG04A20-3R6 | 3.6 $\pm$ 20%                      | 0.053                                      | 49                                     | 2.88                              | 1.59                               |
| ABG04A20-4R7 | 4.7 $\pm$ 20%                      | 0.072                                      | 42                                     | 2.42                              | 1.38                               |
| ABG04A20-5R1 | 5.1 $\pm$ 20%                      | 0.081                                      | 42                                     | 2.37                              | 1.31                               |
| ABG04A20-5R6 | 5.6 $\pm$ 20%                      | 0.087                                      | 30                                     | 2.27                              | 1.26                               |
| ABG04A20-6R2 | 6.2 $\pm$ 20%                      | 0.110                                      | 36                                     | 2.21                              | 1.11                               |
| ABG04A20-6R8 | 6.8 $\pm$ 20%                      | 0.120                                      | 33                                     | 2.27                              | 1.07                               |
| ABG04A20-7R5 | 7.5 $\pm$ 20%                      | 0.110                                      | 30                                     | 1.91                              | 1.11                               |
| ABG04A20-8R2 | 8.2 $\pm$ 20%                      | 0.120                                      | 27                                     | 1.80                              | 1.07                               |
| ABG04A20-100 | 10 $\pm$ 20%                       | 0.159                                      | 26                                     | 1.65                              | 0.93                               |
| ABG04A20-120 | 12 $\pm$ 20%                       | 0.168                                      | 26                                     | 1.55                              | 0.91                               |
| ABG04A20-150 | 15 $\pm$ 20%                       | 0.221                                      | 24                                     | 1.39                              | 0.79                               |
| ABG04A20-220 | 22 $\pm$ 20%                       | 0.337                                      | 15                                     | 1.08                              | 0.64                               |
| ABG04A20-270 | 27 $\pm$ 20%                       | 0.524                                      | 14                                     | 1.05                              | 0.52                               |
| ABG04A20-330 | 33 $\pm$ 20%                       | 0.530                                      | 11                                     | 0.88                              | 0.50                               |

### ABG Series

| Part Number  | Inductance( $\mu$ H)<br>@100KHz,1V | DC<br>Resistance<br>( $\Omega$ ) $\pm$ 30% | Min<br>Self-resonant<br>Frequency(MHz) | Saturation<br>Current<br>Isat (A) | Heat Rating<br>Current<br>Irms (A) |
|--------------|------------------------------------|--|--|-----------------------------------|------------------------------------|
| ABG04A20-390 | 39 $\pm$ 20%                       | 0.626                                      | 11                                     | 0.84                              | 0.47                               |
| ABG04A20-430 | 43 $\pm$ 20%                       | 0.636                                      | 10                                     | 0.79                              | 0.46                               |
| ABG04A20-470 | 47 $\pm$ 20%                       | 0.684                                      | 10                                     | 0.76                              | 0.45                               |
| ABG04A20-510 | 51 $\pm$ 20%                       | 0.722                                      | 10                                     | 0.72                              | 0.43                               |
| ABG04A20-560 | 56 $\pm$ 20%                       | 0.770                                      | 10                                     | 0.68                              | 0.42                               |
| ABG04A20-620 | 62 $\pm$ 20%                       | 0.867                                      | 9.6                                    | 0.67                              | 0.40                               |
| ABG04A30-R91 | 0.91 $\pm$ 30%                     | 0.021                                      | 100                                    | 6.44                              | 3.24                               |
| ABG04A30-1R2 | 1.2 $\pm$ 30%                      | 0.024                                      | 80                                     | 5.97                              | 3.05                               |
| ABG04A30-1R5 | 1.5 $\pm$ 30%                      | 0.029                                      | 62                                     | 4.99                              | 3.01                               |
| ABG04A30-1R8 | 1.8 $\pm$ 30%                      | 0.029                                      | 60                                     | 5.56                              | 3.01                               |
| ABG04A30-2R2 | 2.2 $\pm$ 30%                      | 0.033                                      | 52                                     | 5.05                              | 2.65                               |
| ABG04A30-3R3 | 3.3 $\pm$ 20%                      | 0.039                                      | 38                                     | 3.40                              | 2.47                               |
| ABG04A30-4R3 | 4.3 $\pm$ 20%                      | 0.053                                      | 37                                     | 3.04                              | 2.16                               |
| ABG04A30-4R7 | 4.7 $\pm$ 20%                      | 0.058                                      | 31                                     | 2.99                              | 2.06                               |
| ABG04A30-5R6 | 5.6 $\pm$ 20%                      | 0.062                                      | 30                                     | 2.68                              | 2.01                               |
| ABG04A30-6R2 | 6.2 $\pm$ 20%                      | 0.067                                      | 29                                     | 2.58                              | 1.91                               |
| ABG04A30-6R8 | 6.8 $\pm$ 20%                      | 0.087                                      | 24                                     | 2.83                              | 1.65                               |
| ABG04A30-7R5 | 7.5 $\pm$ 20%                      | 0.081                                      | 26                                     | 2.27                              | 1.70                               |
| ABG04A30-8R2 | 8.2 $\pm$ 20%                      | 0.087                                      | 26                                     | 2.16                              | 1.65                               |
| ABG04A30-9R1 | 9.1 $\pm$ 20%                      | 0.091                                      | 23                                     | 2.06                              | 1.60                               |
| ABG04A30-100 | 10 $\pm$ 20%                       | 0.096                                      | 21                                     | 2.01                              | 1.55                               |
| ABG04A30-120 | 12 $\pm$ 20%                       | 0.130                                      | 18                                     | 1.75                              | 1.34                               |
| ABG04A30-150 | 15 $\pm$ 20%                       | 0.183                                      | 16                                     | 1.70                              | 1.14                               |
| ABG04A30-180 | 18 $\pm$ 20%                       | 0.193                                      | 10                                     | 1.44                              | 1.13                               |
| ABG04A30-220 | 22 $\pm$ 20%                       | 0.216                                      | 10                                     | 1.34                              | 1.03                               |
| ABG04A30-330 | 33 $\pm$ 20%                       | 0.318                                      | 10                                     | 1.13                              | 0.87                               |
| ABG04A30-360 | 36 $\pm$ 20%                       | 0.322                                      | 9.8                                    | 1.08                              | 0.85                               |
| ABG04A30-390 | 39 $\pm$ 20%                       | 0.419                                      | 10                                     | 1.06                              | 0.75                               |
| ABG04A30-430 | 43 $\pm$ 20%                       | 0.424                                      | 9.2                                    | 1.03                              | 0.75                               |
| ABG04A30-470 | 47 $\pm$ 20%                       | 0.428                                      | 8.4                                    | 0.98                              | 0.74                               |
| ABG04A30-510 | 51 $\pm$ 20%                       | 0.453                                      | 8.4                                    | 0.93                              | 0.72                               |
| ABG04A30-560 | 56 $\pm$ 20%                       | 0.534                                      | 8.4                                    | 0.88                              | 0.67                               |
| ABG04A30-620 | 62 $\pm$ 20%                       | 0.798                                      | 7.0                                    | 0.82                              | 0.55                               |
| ABG04A30-680 | 68 $\pm$ 20%                       | 0.836                                      | 7.0                                    | 0.77                              | 0.54                               |
| ABG04A30-750 | 75 $\pm$ 20%                       | 0.982                                      | 6.3                                    | 0.72                              | 0.49                               |
| ABG04A30-820 | 82 $\pm$ 20%                       | 1.021                                      | 5.6                                    | 0.68                              | 0.48                               |
| ABG04A30-910 | 91 $\pm$ 20%                       | 1.059                                      | 5.6                                    | 0.67                              | 0.47                               |
| ABG04A30-101 | 100 $\pm$ 20%                      | 1.107                                      | 5.6                                    | 0.62                              | 0.46                               |
| ABG04A30-121 | 120 $\pm$ 20%                      | 1.300                                      | 5.4                                    | 0.57                              | 0.43                               |
| ABG05A20-1R0 | 1.0 $\pm$ 30%                      | 0.017                                      | 97                                     | 4.46                              | 3.81                               |

### ABG Series

| Part Number  | Inductance( $\mu$ H)<br>@100KHz,1V | DC<br>Resistance<br>( $\Omega$ ) $\pm$ 30% | Min<br>Self-resonant<br>Frequency(MHz) | Saturation<br>Current<br>Isat (A) | Heat Rating<br>Current<br>Irms (A) |
|--------------|------------------------------------|--|--|-----------------------------------|------------------------------------|
| ABG05A20-1R5 | 1.5 $\pm$ 30%                      | 0.024                                      | 80                                     | 3.97                              | 3.30                               |
| ABG05A20-2R2 | 2.2 $\pm$ 30%                      | 0.033                                      | 61                                     | 3.97                              | 2.99                               |
| ABG05A20-3R3 | 3.3 $\pm$ 30%                      | 0.042                                      | 46                                     | 3.35                              | 2.47                               |
| ABG05A20-4R7 | 4.7 $\pm$ 30%                      | 0.056                                      | 33                                     | 2.47                              | 2.11                               |
| ABG05A20-6R8 | 6.8 $\pm$ 20%                      | 0.084                                      | 30                                     | 1.85                              | 1.75                               |
| ABG05A20-100 | 10 $\pm$ 20%                       | 0.106                                      | 24                                     | 1.84                              | 1.55                               |
| ABG05A20-150 | 15 $\pm$ 20%                       | 0.159                                      | 20                                     | 1.48                              | 1.29                               |
| ABG05A20-220 | 22 $\pm$ 20%                       | 0.226                                      | 16                                     | 1.22                              | 1.08                               |
| ABG05A20-330 | 33 $\pm$ 20%                       | 0.356                                      | 13                                     | 1.00                              | 0.85                               |
| ABG05A20-470 | 47 $\pm$ 20%                       | 0.505                                      | 11                                     | 0.83                              | 0.72                               |
| ABG05A20-680 | 68 $\pm$ 20%                       | 0.852                                      | 8.8                                    | 0.72                              | 0.55                               |
| ABG05A20-101 | 100 $\pm$ 20%                      | 1.021                                      | 7.6                                    | 0.59                              | 0.50                               |
| ABG05A40-1R5 | 1.5 $\pm$ 30%                      | 0.012                                      | 60                                     | 7.52                              | 4.58                               |
| ABG05A40-2R2 | 2.2 $\pm$ 30%                      | 0.016                                      | 42                                     | 6.70                              | 4.07                               |
| ABG05A40-3R3 | 3.3 $\pm$ 30%                      | 0.024                                      | 32                                     | 5.25                              | 3.50                               |
| ABG05A40-4R7 | 4.7 $\pm$ 30%                      | 0.027                                      | 28                                     | 4.53                              | 3.19                               |
| ABG05A40-6R8 | 6.8 $\pm$ 20%                      | 0.041                                      | 21                                     | 3.91                              | 2.47                               |
| ABG05A40-100 | 10 $\pm$ 20%                       | 0.053                                      | 18                                     | 2.99                              | 2.16                               |
| ABG05A40-150 | 15 $\pm$ 20%                       | 0.085                                      | 13                                     | 2.37                              | 1.65                               |
| ABG05A40-220 | 22 $\pm$ 20%                       | 0.121                                      | 9.0                                    | 1.96                              | 1.44                               |
| ABG05A40-330 | 33 $\pm$ 20%                       | 0.184                                      | 7.0                                    | 1.65                              | 1.24                               |
| ABG05A40-470 | 47 $\pm$ 20%                       | 0.272                                      | 6.0                                    | 1.34                              | 0.97                               |
| ABG06A20-R50 | 0.50 $\pm$ 30%                     | 0.012                                      | 130                                    | 5.05                              | 4.17                               |
| ABG06A20-R68 | 0.68 $\pm$ 30%                     | 0.016                                      | 120                                    | 7.73                              | 3.91                               |
| ABG06A20-R82 | 0.82 $\pm$ 30%                     | 0.016                                      | 110                                    | 6.80                              | 3.91                               |
| ABG06A20-1R0 | 1.0 $\pm$ 30%                      | 0.019                                      | 94                                     | 4.27                              | 3.35                               |
| ABG06A20-1R2 | 1.2 $\pm$ 30%                      | 0.021                                      | 88                                     | 6.08                              | 3.30                               |
| ABG06A20-1R5 | 1.5 $\pm$ 30%                      | 0.021                                      | 79                                     | 4.38                              | 3.30                               |
| ABG06A20-1R8 | 1.8 $\pm$ 30%                      | 0.027                                      | 68                                     | 5.00                              | 2.83                               |
| ABG06A20-2R0 | 2.0 $\pm$ 30%                      | 0.033                                      | 64                                     | 4.43                              | 2.52                               |
| ABG06A20-2R2 | 2.2 $\pm$ 30%                      | 0.027                                      | 61                                     | 3.86                              | 2.83                               |
| ABG06A20-2R7 | 2.7 $\pm$ 30%                      | 0.033                                      | 56                                     | 4.02                              | 2.68                               |
| ABG06A20-3R3 | 3.3 $\pm$ 30%                      | 0.033                                      | 51                                     | 3.24                              | 2.68                               |
| ABG06A20-3R9 | 3.9 $\pm$ 30%                      | 0.047                                      | 46                                     | 3.35                              | 2.16                               |
| ABG06A20-4R3 | 4.3 $\pm$ 30%                      | 0.047                                      | 44                                     | 2.78                              | 2.16                               |
| ABG06A20-4R7 | 4.7 $\pm$ 30%                      | 0.056                                      | 41                                     | 3.09                              | 2.06                               |
| ABG06A20-5R6 | 5.6 $\pm$ 30%                      | 0.056                                      | 36                                     | 2.47                              | 1.96                               |
| ABG06A20-6R2 | 6.2 $\pm$ 30%                      | 0.076                                      | 35                                     | 2.37                              | 1.85                               |
| ABG06A20-6R8 | 6.8 $\pm$ 30%                      | 0.076                                      | 31                                     | 2.27                              | 1.85                               |
| ABG06A20-8R2 | 8.2 $\pm$ 20%                      | 0.101                                      | 28                                     | 2.16                              | 1.44                               |

**ABG Series**

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|--------------|------------------------------------|--|--|-----------------------------------|------------------------------------|
| ABG06A20-100 | 10 $\pm$ 20%                       | 0.101                                      | 27                                     | 1.80                              | 1.44                               |
| ABG06A20-120 | 12 $\pm$ 20%                       | 0.116                                      | 23                                     | 1.75                              | 1.39                               |
| ABG06A20-150 | 15 $\pm$ 20%                       | 0.139                                      | 21                                     | 1.55                              | 1.24                               |
| ABG06A20-180 | 18 $\pm$ 20%                       | 0.168                                      | 19                                     | 1.27                              | 1.13                               |
| ABG06A20-220 | 22 $\pm$ 20%                       | 0.196                                      | 16                                     | 1.29                              | 1.03                               |
| ABG06A28-1R5 | 1.5 $\pm$ 30%                      | 0.012                                      | 65                                     | 6.18                              | 4.72                               |
| ABG06A28-2R2 | 2.2 $\pm$ 30%                      | 0.014                                      | 56                                     | 5.25                              | 4.21                               |
| ABG06A28-2R7 | 2.7 $\pm$ 30%                      | 0.019                                      | 48                                     | 3.91                              | 3.86                               |
| ABG06A28-3R3 | 3.3 $\pm$ 30%                      | 0.024                                      | 41                                     | 3.74                              | 3.58                               |
| ABG06A28-4R7 | 4.7 $\pm$ 30%                      | 0.029                                      | 35                                     | 3.09                              | 3.17                               |
| ABG06A28-5R1 | 5.1 $\pm$ 30%                      | 0.033                                      | 33                                     | 3.66                              | 2.98                               |
| ABG06A28-6R2 | 6.2 $\pm$ 20%                      | 0.039                                      | 30                                     | 3.14                              | 2.66                               |
| ABG06A28-6R8 | 6.8 $\pm$ 20%                      | 0.045                                      | 27                                     | 2.94                              | 2.47                               |
| ABG06A28-8R2 | 8.2 $\pm$ 20%                      | 0.053                                      | 24                                     | 2.68                              | 2.32                               |
| ABG06A28-9R1 | 9.1 $\pm$ 20%                      | 0.058                                      | 24                                     | 2.63                              | 2.21                               |
| ABG06A28-100 | 10 $\pm$ 20%                       | 0.069                                      | 23                                     | 2.10                              | 2.01                               |
| ABG06A28-120 | 12 $\pm$ 20%                       | 0.077                                      | 18                                     | 1.85                              | 1.91                               |
| ABG06A28-150 | 15 $\pm$ 20%                       | 0.120                                      | 18                                     | 1.80                              | 1.49                               |
| ABG06A28-180 | 18 $\pm$ 20%                       | 0.116                                      | 15                                     | 1.57                              | 1.49                               |
| ABG06A28-220 | 22 $\pm$ 20%                       | 0.135                                      | 14                                     | 1.65                              | 1.44                               |
| ABG06A28-270 | 27 $\pm$ 20%                       | 0.149                                      | 13                                     | 1.55                              | 1.36                               |
| ABG06A28-330 | 33 $\pm$ 20%                       | 0.178                                      | 12                                     | 1.39                              | 1.26                               |
| ABG06A28-360 | 36 $\pm$ 20%                       | 0.207                                      | 11                                     | 1.29                              | 1.16                               |
| ABG06A28-390 | 39 $\pm$ 20%                       | 0.216                                      | 11                                     | 1.29                              | 1.13                               |
| ABG06A28-430 | 43 $\pm$ 20%                       | 0.226                                      | 11                                     | 1.24                              | 1.10                               |
| ABG06A28-470 | 47 $\pm$ 20%                       | 0.236                                      | 9.5                                    | 1.18                              | 1.09                               |
| ABG06A28-510 | 51 $\pm$ 20%                       | 0.255                                      | 9.5                                    | 1.08                              | 1.04                               |
| ABG06A28-620 | 62 $\pm$ 20%                       | 0.332                                      | 7.7                                    | 0.98                              | 0.92                               |
| ABG06A28-680 | 68 $\pm$ 20%                       | 0.347                                      | 7.7                                    | 0.98                              | 0.89                               |
| ABG06A28-750 | 75 $\pm$ 20%                       | 0.395                                      | 7.7                                    | 0.93                              | 0.83                               |
| ABG06A28-820 | 82 $\pm$ 20%                       | 0.428                                      | 7.7                                    | 0.93                              | 0.80                               |
| ABG06A28-910 | 91 $\pm$ 20%                       | 0.486                                      | 7.7                                    | 0.82                              | 0.75                               |
| ABG06A28-101 | 100 $\pm$ 20%                      | 0.524                                      | 7.1                                    | 0.77                              | 0.72                               |
| ABG06A45-R82 | 0.82 $\pm$ 30%                     | 0.007                                      | 140                                    | 10.71                             | 6.08                               |
| ABG06A45-1R0 | 1.0 $\pm$ 30%                      | 0.010                                      | 100                                    | 10.15                             | 5.29                               |
| ABG06A45-1R2 | 1.2 $\pm$ 30%                      | 0.010                                      | 100                                    | 8.60                              | 5.56                               |
| ABG06A45-1R5 | 1.5 $\pm$ 30%                      | 0.011                                      | 65                                     | 9.06                              | 5.10                               |
| ABG06A45-1R8 | 1.8 $\pm$ 30%                      | 0.011                                      | 74                                     | 7.83                              | 5.10                               |
| ABG06A45-2R2 | 2.2 $\pm$ 30%                      | 0.013                                      | 52                                     | 6.95                              | 4.74                               |
| ABG06A45-2R3 | 2.3 $\pm$ 30%                      | 0.020                                      | 60                                     | 6.18                              | 3.61                               |



### ABG Series

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|--------------|------------------------------------|--|--|-----------------------------------|------------------------------------|
| ABG06A45-2R7 | 2.7 $\pm$ 30%                      | 0.014                                      | 38                                     | 5.92                              | 4.43                               |
| ABG06A45-3R0 | 3.0 $\pm$ 30%                      | 0.019                                      | 35                                     | 5.77                              | 3.91                               |
| ABG06A45-3R3 | 3.3 $\pm$ 30%                      | 0.020                                      | 32                                     | 6.08                              | 3.81                               |
| ABG06A45-3R6 | 3.6 $\pm$ 30%                      | 0.020                                      | 28                                     | 5.41                              | 3.81                               |
| ABG06A45-4R3 | 4.3 $\pm$ 20%                      | 0.021                                      | 23                                     | 4.58                              | 3.61                               |
| ABG06A45-4R7 | 4.7 $\pm$ 20%                      | 0.024                                      | 24                                     | 5.12                              | 3.40                               |
| ABG06A45-5R1 | 5.1 $\pm$ 20%                      | 0.024                                      | 23                                     | 4.53                              | 3.40                               |
| ABG06A45-5R6 | 5.6 $\pm$ 20%                      | 0.027                                      | 23                                     | 4.27                              | 3.24                               |
| ABG06A45-6R2 | 6.2 $\pm$ 20%                      | 0.030                                      | 26                                     | 4.56                              | 3.09                               |
| ABG06A45-6R8 | 6.8 $\pm$ 20%                      | 0.030                                      | 20                                     | 4.02                              | 3.09                               |
| ABG06A45-7R5 | 7.5 $\pm$ 20%                      | 0.033                                      | 18                                     | 3.61                              | 2.99                               |
| ABG06A45-8R2 | 8.2 $\pm$ 20%                      | 0.041                                      | 21                                     | 4.02                              | 2.68                               |
| ABG06A45-9R1 | 9.1 $\pm$ 20%                      | 0.041                                      | 17                                     | 3.45                              | 2.68                               |
| ABG06A45-100 | 10 $\pm$ 20%                       | 0.046                                      | 15                                     | 3.30                              | 2.52                               |
| ABG06A45-120 | 12 $\pm$ 20%                       | 0.056                                      | 13                                     | 2.88                              | 2.27                               |
| ABG06A45-150 | 15 $\pm$ 20%                       | 0.065                                      | 12                                     | 2.58                              | 2.11                               |
| ABG06A45-180 | 18 $\pm$ 20%                       | 0.078                                      | 10                                     | 2.27                              | 1.91                               |
| ABG06A45-220 | 22 $\pm$ 20%                       | 0.085                                      | 10                                     | 2.11                              | 1.85                               |
| ABG06A45-270 | 27 $\pm$ 20%                       | 0.098                                      | 9.2                                    | 1.96                              | 1.70                               |
| ABG06A45-300 | 30 $\pm$ 20%                       | 0.127                                      | 7.8                                    | 1.75                              | 1.55                               |
| ABG06A45-330 | 33 $\pm$ 20%                       | 0.132                                      | 7.8                                    | 1.70                              | 1.49                               |
| ABG06A45-360 | 36 $\pm$ 20%                       | 0.166                                      | 7.8                                    | 1.67                              | 1.44                               |
| ABG06A45-390 | 39 $\pm$ 20%                       | 0.173                                      | 7.8                                    | 1.55                              | 1.29                               |
| ABG06A45-430 | 43 $\pm$ 20%                       | 0.193                                      | 7.7                                    | 1.68                              | 1.24                               |
| ABG06A45-470 | 47 $\pm$ 20%                       | 0.193                                      | 6.4                                    | 1.44                              | 1.24                               |
| ABG06A45-510 | 51 $\pm$ 20%                       | 0.199                                      | 6.4                                    | 1.39                              | 1.18                               |
| ABG06A45-560 | 56 $\pm$ 20%                       | 0.213                                      | 6.4                                    | 1.34                              | 1.13                               |
| ABG06A45-620 | 62 $\pm$ 20%                       | 0.226                                      | 6.4                                    | 1.29                              | 1.13                               |
| ABG06A45-680 | 68 $\pm$ 20%                       | 0.278                                      | 6.4                                    | 1.24                              | 1.03                               |
| ABG06A45-750 | 75 $\pm$ 20%                       | 0.293                                      | 5                                      | 1.18                              | 0.98                               |
| ABG06A45-820 | 82 $\pm$ 20%                       | 0.328                                      | 4.9                                    | 1.08                              | 0.93                               |
| ABG06A45-910 | 91 $\pm$ 20%                       | 0.345                                      | 4.9                                    | 1.03                              | 0.88                               |
| ABG06A45-101 | 100 $\pm$ 20%                      | 0.416                                      | 4.2                                    | 0.98                              | 0.82                               |
| ABG06A45-121 | 120 $\pm$ 20%                      | 0.466                                      | 4.2                                    | 0.88                              | 0.79                               |
| ABG06A45-151 | 150 $\pm$ 20%                      | 0.559                                      | 4.2                                    | 0.82                              | 0.72                               |
| ABG06A45-221 | 220 $\pm$ 20%                      | 0.803                                      | 3.5                                    | 0.72                              | 0.61                               |
| ABG06A45-331 | 330 $\pm$ 20%                      | 1.223                                      | 2.8                                    | 0.59                              | 0.59                               |
| ABG06A45-471 | 470 $\pm$ 20%                      | 2.600                                      | 2.1                                    | 0.20                              | 0.20                               |
| ABG08A40-R82 | 0.82 $\pm$ 30%                     | 0.007                                      | 94                                     | 14.21                             | 6.49                               |
| ABG08A40-1R0 | 1.0 $\pm$ 30%                      | 0.007                                      | 89                                     | 10.15                             | 6.49                               |

### ABG Series

| Part Number  | Inductance( $\mu$ H)<br>@100KHz,1V | DC<br>Resistance<br>( $\Omega$ ) $\pm$ 30% | Min<br>Self-resonant<br>Frequency(MHz) | Saturation<br>Current<br>Isat (A) | Heat Rating<br>Current<br>Irms (A) |
|--------------|------------------------------------|--|--|-----------------------------------|------------------------------------|
| ABG08A40-1R5 | 1.5 $\pm$ 30%                      | 0.010                                      | 67                                     | 8.39                              | 5.82                               |
| ABG08A40-2R0 | 2.0 $\pm$ 30%                      | 0.011                                      | 43                                     | 9.53                              | 5.30                               |
| ABG08A40-2R2 | 2.2 $\pm$ 30%                      | 0.011                                      | 41                                     | 7.31                              | 5.30                               |
| ABG08A40-3R0 | 3.0 $\pm$ 30%                      | 0.013                                      | 32                                     | 6.28                              | 4.84                               |
| ABG08A40-3R3 | 3.3 $\pm$ 30%                      | 0.016                                      | 27                                     | 6.70                              | 4.53                               |
| ABG08A40-3R6 | 3.6 $\pm$ 30%                      | 0.016                                      | 30                                     | 7.75                              | 4.48                               |
| ABG08A40-3R9 | 3.9 $\pm$ 30%                      | 0.016                                      | 26                                     | 5.92                              | 4.48                               |
| ABG08A40-4R7 | 4.7 $\pm$ 30%                      | 0.018                                      | 24                                     | 6.08                              | 4.22                               |
| ABG08A40-5R1 | 5.1 $\pm$ 30%                      | 0.018                                      | 22                                     | 4.84                              | 4.17                               |
| ABG08A40-5R6 | 5.6 $\pm$ 30%                      | 0.020                                      | 24                                     | 6.18                              | 3.97                               |
| ABG08A40-6R2 | 6.2 $\pm$ 30%                      | 0.020                                      | 20                                     | 4.58                              | 3.97                               |
| ABG08A40-6R8 | 6.8 $\pm$ 20%                      | 0.023                                      | 20                                     | 4.69                              | 3.71                               |
| ABG08A40-8R2 | 8.2 $\pm$ 20%                      | 0.024                                      | 17                                     | 4.33                              | 3.55                               |
| ABG08A40-100 | 10 $\pm$ 20%                       | 0.027                                      | 15                                     | 3.71                              | 3.40                               |
| ABG08A40-150 | 15 $\pm$ 20%                       | 0.045                                      | 12                                     | 3.04                              | 2.68                               |
| ABG08A40-180 | 18 $\pm$ 20%                       | 0.050                                      | 11                                     | 2.78                              | 2.47                               |
| ABG08A40-220 | 22 $\pm$ 20%                       | 0.066                                      | 9.5                                    | 2.47                              | 2.16                               |
| ABG08A40-270 | 27 $\pm$ 20%                       | 0.075                                      | 9.2                                    | 2.21                              | 2.06                               |
| ABG08A40-330 | 33 $\pm$ 20%                       | 0.093                                      | 7.8                                    | 2.11                              | 1.85                               |
| ABG08A40-360 | 36 $\pm$ 20%                       | 0.098                                      | 7.8                                    | 2.06                              | 1.80                               |
| ABG08A40-390 | 39 $\pm$ 20%                       | 0.103                                      | 7.8                                    | 2.01                              | 1.75                               |
| ABG08A40-430 | 43 $\pm$ 20%                       | 0.108                                      | 7.8                                    | 1.96                              | 1.70                               |
| ABG08A40-470 | 47 $\pm$ 20%                       | 0.130                                      | 6.4                                    | 1.80                              | 1.60                               |
| ABG08A40-510 | 51 $\pm$ 20%                       | 0.136                                      | 6.4                                    | 1.75                              | 1.55                               |
| ABG08A40-560 | 56 $\pm$ 20%                       | 0.142                                      | 6.4                                    | 1.60                              | 1.49                               |
| ABG08A40-620 | 62 $\pm$ 20%                       | 0.175                                      | 6.4                                    | 1.55                              | 1.34                               |
| ABG08A40-680 | 68 $\pm$ 20%                       | 0.188                                      | 4.9                                    | 1.49                              | 1.29                               |
| ABG08A40-750 | 75 $\pm$ 20%                       | 0.203                                      | 4.9                                    | 1.39                              | 1.24                               |
| ABG08A40-820 | 82 $\pm$ 20%                       | 0.216                                      | 5.9                                    | 1.34                              | 1.18                               |
| ABG08A40-910 | 91 $\pm$ 20%                       | 0.261                                      | 4.9                                    | 1.24                              | 1.08                               |
| ABG08A40-101 | 100 $\pm$ 20%                      | 0.279                                      | 4.2                                    | 1.18                              | 1.03                               |
| ABG08A40-121 | 120 $\pm$ 20%                      | 0.321                                      | 3.5                                    | 1.08                              | 0.98                               |
| ABG08A40-151 | 150 $\pm$ 20%                      | 0.395                                      | 3.5                                    | 1.13                              | 0.88                               |
| ABG08A40-221 | 220 $\pm$ 20%                      | 0.576                                      | 3.5                                    | 0.88                              | 0.82                               |
| ABG08A40-331 | 330 $\pm$ 20%                      | 0.856                                      | 2.8                                    | 0.70                              | 0.66                               |
| ABG08A40-471 | 470 $\pm$ 20%                      | 1.500                                      | 2.1                                    | 0.45                              | 0.45                               |
| ABG08A40-561 | 560 $\pm$ 20%                      | 2.000                                      | 1.6                                    | 0.30                              | 0.30                               |
| ABG08A40-681 | 680 $\pm$ 20%                      | 2.200                                      | 1.2                                    | 0.25                              | 0.25                               |
| ABG08A40-821 | 820 $\pm$ 20%                      | 3.000                                      | 0.8                                    | 0.20                              | 0.20                               |
| ABG08A40-102 | 1000 $\pm$ 20%                     | 4.000                                      | 0.5                                    | 0.15                              | 0.15                               |

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